

PTO/SB/08a (08-03)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/729,854
		Filing Date	12/05/2003
		First Named Inventor	Junghoon Lee
		Art Unit	1651/655
		Examiner Name	Ralph J. Gitomer
Sheet 2 of 2	Attorney Docket Number	8102	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
125		BESTEMAN, KOEN; LEE, JEONG-O; WIERTZ, FRANK G.M.; HEERING, HENDRIK, A.; DEKKER, CEES. Enzyme-Coating Carbon Nanotubes as Single-Molecule Biosensors. Department of Nanosciences and DIMES, Delft University of Technology, Lorentzweg 1, 2628 CJ Delft, The Netherlands; Nano Letters. 5/1/2003, Vol. 3, No. 6, pp. 727-730	
125		ZHAO, WEI; SONG, CHULHO; PEHRASSON, PEHR E.. Water Soluble and Optically pH Sensitive Single-Walled Carbon Nanotubes from Surface Modification. Department of Chemistry, University of Arkansas, 2801 South University Avenue, Little Rock, Arkansas, 72204 and Chemistry Division, Naval Research Laboratory, Washington, DC 20375-5000; JACS. 2002, Vol. 124, pp. 12418-12419	

Examiner Signature	R J GITOMER	Date Considered	10/20/05
--------------------	-------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for Form 1449A/PTO

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	2
-------	---	----	---

**Complete if Known**

<b>Application Number</b>	<b>10/729,854</b>
<b>Filing Date</b>	<b>12/05/2003</b>
<b>First Named Inventor</b>	<b>Junghoon Lee</b>
<b>Art Unit</b>	<b>1651/655</b>
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	<b>8102</b>

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

RGITOMEN

Date Considered

10/20/08

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO		<b>Complete If Known</b>			
<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/729,854		
		Filing Date	12/5/2003		
		First Named Inventor	Junghoon Lee		
		Art Unit	1681/655		
		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	8102

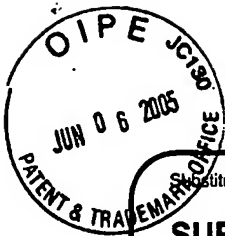
NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
125		JIJUN ZHAO, et al.; "Gas Molecule Adsorption in Carbon Nanotubes and Nanotube Bundles", NANOTECHNOLOGY, 14 March 2002, UK, vol. 13; pp. 195-200; Institute of Physics Publishing; PII: S0957-4484(02)30254-	

Examiner Signature	12610MEN	Date Considered	10/20/05
-----------------------	----------	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b(08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete If Known</b>	
		Application Number	10/729,854
		Filing Date	12/5/2003
		First Named Inventor	Junghoon Lee
		Art Unit	1651/655
		Examiner Name	Tonya Lee
Sheet 1 of 1	Attorney Docket Number	8102	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
RG		YUEHE LIN, et al.; "Glucose Biosensors Based on Carbon Nanotube Nanoelectrode Ensembles", NANO LETTERS, February 2004, vol. 4, no. 2; pp. 191-195; Copyright 2004 by the American Chemical Society.	
		KOEN BESTEMAN, et al.; "Enzyme-Coated Carbon Nanotubes as Single-Molecule Biosensors", NANO LETTERS, 2003, vol. 3, no. 6; pp. 727-730; Copyright 2003 by the American Chemical Society.	
		COLLINS, PHILIP G., et al.; "Extreme Oxygen Sensitivity of Electronic Properties of Carbon Nanotubes", Northwestern University Library Database: MAS Ultra - School Edition, 03/10/2000, Vol. 287, Issue 5459, EBSCO HOST Research Database Website.	
		JING LI, et al.; "Carbon Nanotube Sensors for Gas and Organic Vapor Detection", NANO LETTERS, 2003, vol. 3, no. 7; pp. 929-933; Copyright 2003 by the American Chemical Society.	
		SHU PENG, et al.; "Toward Large Arrays of Multiplex Functionalized Carbon Nanotube Sensors for Highly Sensitive and Selective Molecular Detection", NANO LETTERS, 2003, vol. 3, no. 3; pp. 347-351; Copyright 2003 by the American Chemical Society.	
		KRUPKE, RALPH, et al.; "Separation of Metallic from Semiconducting Single-Walled Carbon Nanotubes", Northwestern University Library Database: MAS Ultra - School Edition, 07/18/2003, Vol. 301, Issue 5631, EBSCO HOST Research Database Website.	
		PAVEL NIKOLAEV, et al.; "Gas-Phase Catalytic Growth of Single-Walled Carbon Nanotubes from Carbon Monoxide", CHEMICAL PHYSICS LETTERS 313 (1999) 91-97, November 5, 1999; Copyright 1999 Elsevier Science B.V. al Society.	

Examiner Signature	RG GITOMEN	Date Considered	10/20/05
--------------------	------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. MW1203912

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.